
SBA Innovation Clusters

RADM Steven G. Smith USN (Ret)
Advanced Defense Technology Cluster Coordinator
U.S. Small Business Administration
2 March 2012
Steven.Smith@sba.gov / 202-205-7192



Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 02 MAR 2012		2. REPORT TYPE		3. DATES COVERED 00-00-2012 to 00-00-2012	
4. TITLE AND SUBTITLE SBA Innovation Clusters				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Small Business Administration ,Advanced Defense Technology Cluster,409 3rd St, SW,Washington,DC,20416				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Operational Energy Capabilities Improvement Fund Small Business Conference, 2 Mar, 2012, Arlington, Virginia. Sponsored by DOD.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 11	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

What is a cluster?

- Geographic concentrations of interconnected companies, specialized suppliers, service providers and associated institutions in an industry
- Clusters usually have a central cluster “concierge” or administrator that manages the cluster and fosters linkages and participation

- Small Businesses
- Colleges
- Entrepreneurs
- Lenders
- Non-profits
- Government Agencies
- Procurement Assistance
- Consultants

- Large Contractors
- Universities
- Investors
- Trade Associations
- Business Assistance
- Other Clusters
- For Profits
- Community Leadership



Cluster Concept



Spur Innovation

**Create New
Businesses**

**Create and Retain
Jobs**

**Increase Revenue
and Profits**

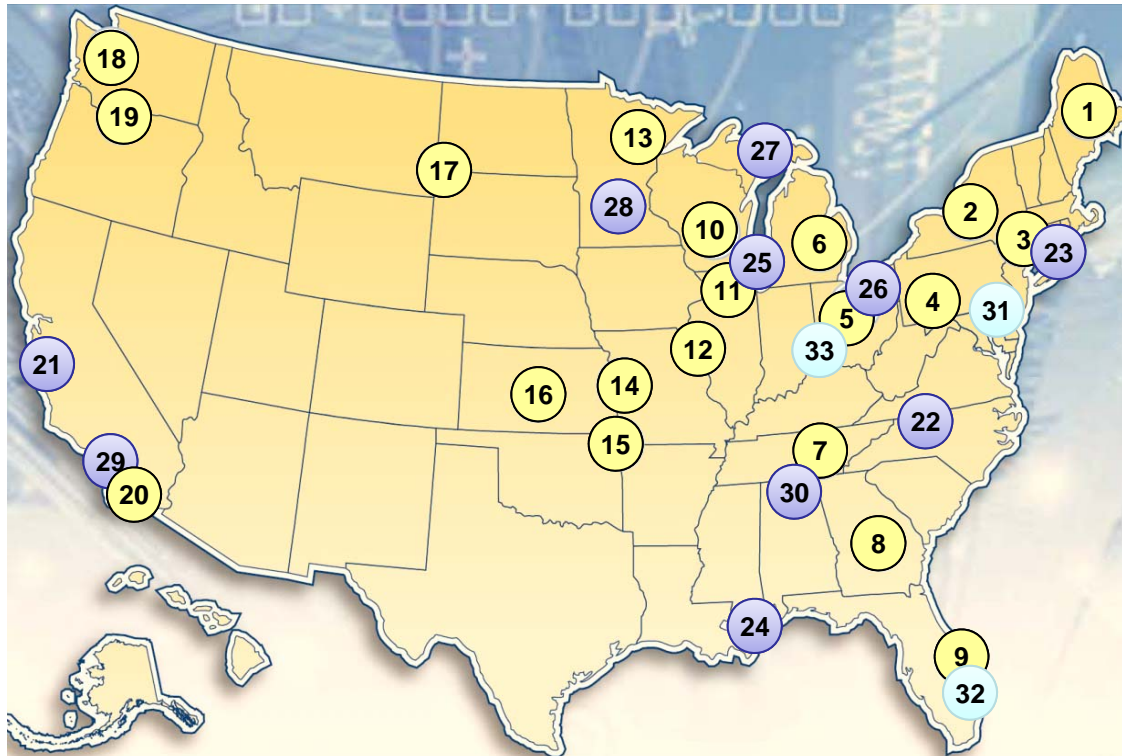


U.S. Small Business Administration

Your Small Business Resource

www.sba.gov

Approved for Public Release



SBA - Pilot Clusters

- 21 CA - Agriculture Innovation Cluster – Project 17 Ag Tech *Agriculture Innovation*
- 22 NC - Carolinas' Nuclear Cluster *Nuclear energy technology and components*
- 23 CN - Northeast Electrochemical Energy Storage *Fuel cell and hydrogen fueling systems*
- 24 MS - Enterprise for Innovative Geospatial Solutions *Geospatial technology*
- 25 IL - Illinois Smart Grid Regional Innovation Cluster *Smart grid / efficient energy*
- 26 OH - NorTech Flexmatters *Flexible electronics*
- 27 MI - Upper Michigan Green Aviation Coalition *Green aviation*
- 28 MN- Defense Alliance of Minnesota *Advanced power and energy (DoD Focused)*
- 29 CA- San Diego Advanced Defense Cluster *Autonomous systems and cyber security (DoD Focused)*
- 30 AL - Huntsville Advanced Defense Technology Initiative *Aero-space technology (DoD Focused)*

Pilot Collaboration Clusters

Small Business Administration
together with...

- 31 PA - Greater Philadelphia *Innovation Energy-Efficient Buildings (EDA, NIST, DOE,)*
- 32 FL - Space Coast *Space Shuttle Shutdown Transition (EDA, NASA, DOL)*
- 33 OH - South West Ohio Water Cluster *Water Research (EPA)*

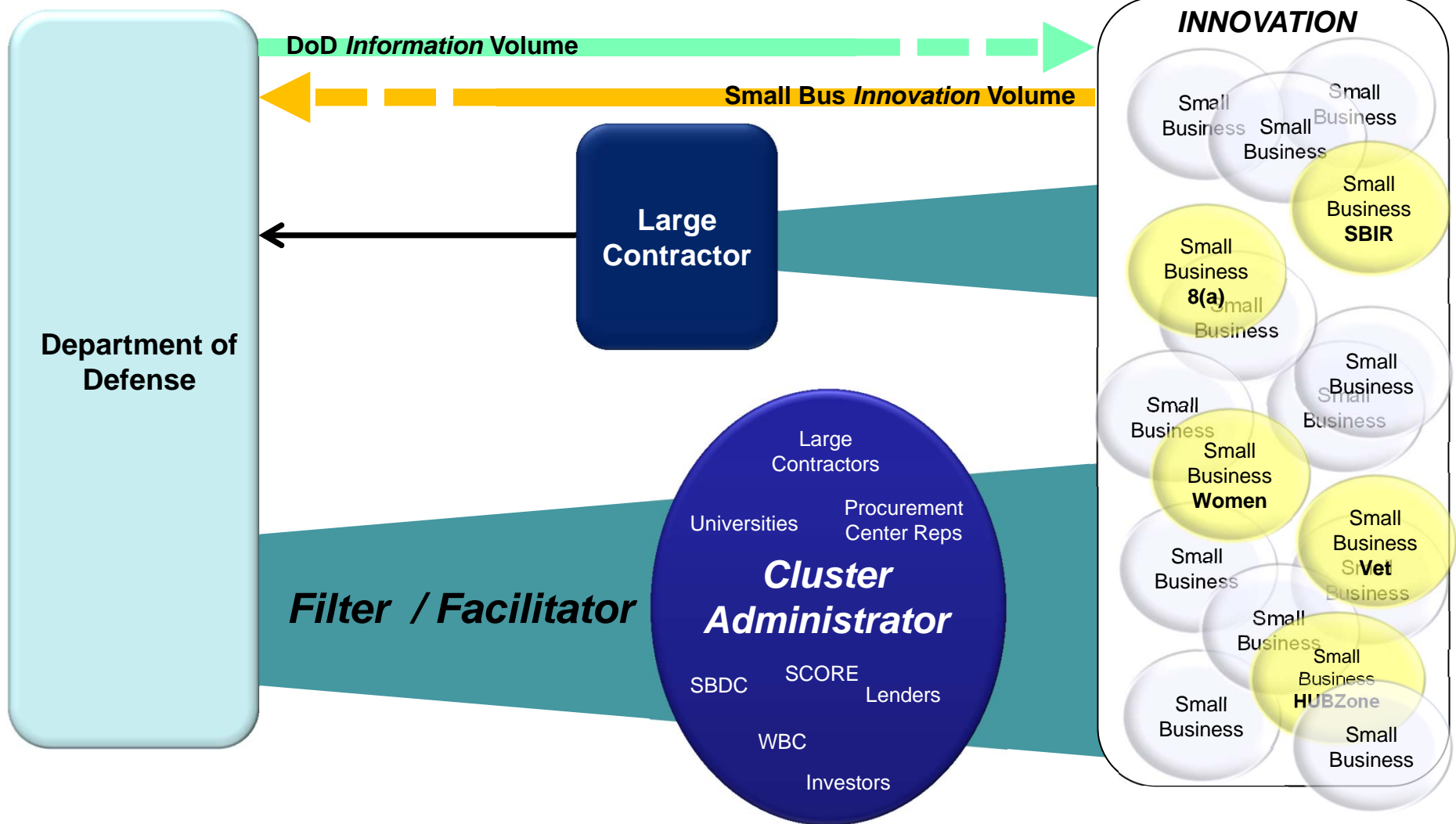
Jobs Accelerator - Federal Collaboration Clusters

Economic Development Agency
Employment and Training Agency
Small Business Administration

- 1 ME - GreenME Renewable Energy Industry Cluster
- 2 NY - Finger Lakes Food Processing Cluster Initiative *Food Processing Cluster*
- 3 NY - New York Renewable Energy Cluster *Renewable Energy*
- 4 PA - Southwestern Pennsylvania Revitalization *Energy; Health Care*
- 5 OH - Northeast Ohio Speed-To-Market Accelerator *Energy; Flexible Electronics*
- 6 MI - Southeast Michigan Advanced Energy Storage Systems Initiative *Advanced Energy Storage Systems*
- 7 TN - Advanced Composites Employment Accelerator *Advanced Composites with Focus on Low-Cost Carbon Fiber Technology*
- 8 GA - Atlanta Health Information Technology Cluster *Health Information Technology*
- 9 FL - Space Coast Clean Energy Jobs Accelerator *Clean Energy*
- 10 WI - Milwaukee Regional Water Accelerator Project *Water*
- 11 IL - Rockford Area Aerospace Cluster Jobs and Innovation Accelerator *Aerospace*
- 12 MO - St. Louis Bioscience Jobs and Innovation Accelerator Project *Bioscience*
- 13 MN - Minnesota's Mining Cluster – The Next Generation of Innovation and Diversification to Grow America *Energy*
- 14 MO – Kansas City Regional Jobs Accelerator *Advanced Manufacturing and Information Technology*
- 15 AR - Launching the ARK: Acceleration, Resources, Knowledge *Information Technology*
- 16 KS - Center for Innovation and Enterprise Engagement *Advanced materials*
- 17 ND - Upper Missouri Tribal Environmental Risk Mitigation Project *Environmental Risk Mitigation*
- 18 WA - Washington Interactive Media Accelerator - *Interactive Media*
- 19 OR - Portland Regional Clean Tech Advance Initiative *Clean Tech*
- 20 CA - San Diego-Imperial Valley Renewable Energy Generation Training and Demonstration Center *Renewable Energy*

Clusters Connect Innovation to DOD Requirements

REQUIREMENTS



U.S. Small Business Administration

www.sba.gov

Your Small Business Resource

Approved for Public Release

ADT Cluster JCTD Initiative

Proposed – Energy Validation Lab (EVal)

- EVal will identify and evaluate energy systems and technologies, TRL 6-7 or higher, that can be rapidly applied to war fighter requirements.
- JCTD capitalizes on national R&T investment
- Combines Open Innovation Network with RFIs
- EVal is a “process” to assess/access “products”
- Desired Outcomes: reduce fully-burdened cost of fuel, enhance force capability, provide more fight, use less power



Small Business Energy Assistance

- **Energy Assistance for Small Businesses:**
 - Funded \$2.5M in grants to the Small Business Development Centers for helping businesses that develop and commercialize clean energy technology
- **Helping Manufacturers and Businesses adopt Green Practices** with DoC, DoE, DoL, and EPA
 - E3 (Economy / Energy / Environment) Pilot Program
- **Greater Philadelphia Innovation Cluster (GPIC) for Energy-Efficient Buildings** with DoE / DoC EDA
 - Small Business Commercialization Acceleration Program (CAP)



Small Business Energy Assistance

- Mentoring for High-Growth Potential Energy Companies
 - [Entrepreneurial Mentor Corps](#)
- Small Business Guide to Energy Retrofit Opportunities: with CEG, DOE, EPA, and DoL
 - [Green Business Opportunities](#)
- One-Stop Destination for Green Business Opportunities:
 - green.sba.gov

Small Business Energy Assistance

- SBA's Flexible Loan Programs serve energy businesses
 - Since 2010 : 173 Loans totaling \$357M
- Investments in Clean Energy Businesses
 - [Impact Investment Initiative](#)
 - [Startup America](#)



SBA Cluster Information

- Website addresses for ADT Clusters:
 - www.powerfordefense.com Minnesota Power & Energy
 - www.vcsi.org (Von Braun Center for Science & Innovation – Huntsville, AL) Click on ADT link on bottom of VCSI homepage for specific ADT info.
 - www.ccatsandiego.org (San Diego State University Research Foundation) - - - also interesting SDADT video at:
http://www.ccatsandiego.org/CWID2011_SDADT.aspx

SBA Cluster Information

- Additional Cluster information

www.sba.gov/clusters

RADM Steven G. Smith USN (Ret)
Advanced Defense Technology Cluster Coordinator
U.S. Small Business Administration
Steven.Smith@sba.gov / 202-205-7192

